

DOCUMENT RESUME

ED 399 371

CE 072 419

TITLE National Profiles in Technical and Vocational Education in Asia and the Pacific: Indonesia.

INSTITUTION United Nations Educational, Scientific and Cultural Organization, Bangkok (Thailand). Principal Regional Office for Asia and the Pacific.

PUB DATE 95

NOTE 24p.; Product of UNEVOC, the International Project on Technical and Vocational Education. For related documents, see CE 072 415-429.

AVAILABLE FROM Asia-Pacific Centre of Educational Innovation for Development (ACEID), UNESCO Principal Regional Office for Asia and the Pacific, P.O. Box 967, Prakanong Post Office, Bangkok 10110, Thailand; Networking and Information Service Unit, CPSC, P.O. Box 7500, Domestic Airport Post Office, NAIA, Pasay City 1300, Manila, Philippines.

PUB TYPE Reports - Descriptive (141)

EDRS PRICE MF01/PC01 Plus Postage.

DESCRIPTORS Educational Change; *Educational Development; Foreign Countries; Government Role; Program Descriptions; Staff Development; *Teacher Education; Technical Assistance; Technical Education; *Vocational Education; Vocational Schools

IDENTIFIERS Asia Pacific Region; *Indonesia

ABSTRACT

This technical and vocational education (TVE) profile on Indonesia is one in a series of profiles of UNESCO member countries. It is intended to be a handy reference on TVE systems, staff development, technical cooperation, and information networking. A two-page overview lists TVE goals, outlines the structure and governance, and lists the six areas into which TVE programs are grouped: Agriculture and Forestry; Engineering; Business and Commerce; Home Technology; Health and Social Works; and Arts and Crafts. Nine diagrams and charts follow this overview and describe further the Indonesian TVE system. They concern the following: organization of the Ministry of Education and Culture; organization of the Directorate General of Primary and Secondary Education; organizational structure of the Directorate of Technical and Vocational Education (DTVE); summary of TVE within the Indonesian education hierarchy; structure of the education system; school ladder, types, and level of skills within the DTVE; ladder structure of school types and labor force pyramid; number of public secondary technical and vocational schools and student population, 1989-90; and list of clusters and study programs within curriculum 1984 for schools of TVE. (YLB)

* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *

NATIONAL PROFILES
IN TECHNICAL
AND VOCATIONAL EDUCATION
IN ASIA AND THE PACIFIC

Indonesia

UNEVOC
International Project on Technical and Vocational Education

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

- ☒ This document has been reproduced as
received from the person or organization
originating it.
☐ Minor changes have been made to improve
reproduction quality.

- Points of view or opinions stated in this docu-
ment do not necessarily represent official
OERI position or policy.

PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY

F. Z. Guntur

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

BEST COPY AVAILABLE



NATIONAL PROFILES IN TECHNICAL AND VOCATIONAL EDUCATION IN ASIA AND THE PACIFIC

Indonesia



UNEVOC

United Nations Centre for Technical and Vocational Education
Promoting and coordinating technical and vocational education



Centre for Professional Skills Training
for Technical Education

UNESCO PRINCIPAL REGIONAL OFFICE FOR ASIA AND THE PACIFIC, BANGKOK 1993

This volume is one of a series of member country profiles on Technical and Vocational Education of the following member countries:

AFGHANISTAN
AUSTRALIA
BANGLADESH
BHUTAN
PEOPLE'S REPUBLIC OF CHINA
FIJI
INDIA
INDONESIA
ISLAMIC REPUBLIC OF IRAN
JAPAN
REPUBLIC OF KOREA

MALAYSIA
MYANMAR
NEPAL
ISLAMIC REPUBLIC OF PAKISTAN
PAPUA NEW GUINEA
PHILIPPINES
SINGAPORE
SRI LANKA
THAILAND
SOCIALIST REPUBLIC OF VIETNAM

© UNESCO 1995

Published by the
UNESCO Principal Regional Office for Asia and the Pacific
P.O. Box 967, Prakanong Post Office
Bangkok 10110, Thailand

Printed in Thailand

Copies of this publication are available upon request from (i) Asia-Pacific Centre of Educational Innovation for Development (ACEID), UNESCO Principal Regional Office for Asia and the Pacific, P.O. Box 967, Prakanong Post Office, Bangkok 10110, Thailand, and (ii) Networking and Information Service Unit, CPSC, P.O. Box 7500, Domestic Airport Post Office, NAIA, Pasay City 1300, Manila, Philippines.

TABLE OF CONTENTS

Foreword

An Overview	1
-------------------	---

Diagrams and Charts

Organization of the Ministry of Education and Culture	3
Organization of the Directorate General of Primary and Secondary Education (DGPSE)	4
Organizational Structure of the Directorate of Technical and Vocational Education (DTVE), MECS	5
Summary of Technical and Vocational Education within the Indonesian Education Hierarchy	6
Structure of Education System	7
School Ladder, Types and Levels of Skills within DTVE	8
Ladder Structure of School Types and Labour Force Pyramid	9
Number of Public Secondary Technical and Vocational Schools and Student Population (1989-1990)	10
List of Clusters and Study Programmes within Curriculum 1984 for Schools of Technical and Vocational Education	11

FOREWORD

Technical and vocational education has always been an important component of UNESCO's consecutive Medium Term Plans. The basic objective of this programme is to support the efforts of Member States to link education systems more closely to the world of work and to promote the expansion and improvement of technical and vocational education in the light of changing employment needs.

The Colombo Plan Staff College for Technician Education (CPSC) also dedicates itself primarily to enhancing the growth and development of the technician education systems in its member countries which are located in the Asia and Pacific region. Its programmes, projects and activities are geared to provide the needed impetus for the professional development of senior level personnel involved in technician education development efforts.

UNESCO has launched an International Project on Technical and Vocational Education (UNEVOC) as of 1992 in co-operation with the Government of Germany, ILO, FAO, UNDP and NGOs interested in the reform of technical and vocational education. This project focuses on exchanging information, research and experiences on policy and programme issues in technical and vocational through a network of co-operating institutions.

In a spirit of co-operation between UNESCO and CPSC, under UNEVOC, an attempt is being made to compile and publish studies on the development of technical and vocational education in Member States in the form of TVE profiles of 21 countries. It is hoped that this series will serve as a handy reference information on TVE systems, staff development, technical co-operation and information networking. These studies have been possible because of the full co-operation to UNESCO PROAP and CPSC by all concerned in the Member States.

The opinion expressed in this study are those of the authors and do not necessarily reflect the position of UNESCO and CPSC in this regard. This profile on Indonesia was prepared by Prof. Lemuel M. Miravalles, Seconded Faculty Member to CPSC by the Government of Philippines.

C.K. Basu
Director, CPSC

Victor Ordonez
Director, UNESCO PROAP

TECHNICAL AND VOCATIONAL EDUCATION SYSTEM

AN OVERVIEW

The goals of the Indonesian technical and vocational education (TVE) system are in accordance with the national goals as contained in the National Planning Guidelines, 1988. These TVE goals are described as follows:

1. As an educational institution, a senior technical and vocational school aims to educate its students in order for them to become complete Indonesian citizens based on *Pancasila*, encourage self-development and take responsibility for the growth of the nation.
2. As a vocational education institution, a senior technical and vocational school aims to provide skills to students as an initial preparation for the world of work in accordance with the identified requirements.
3. Pursuant to the principle of life-long education, a senior technical and vocational school aims to provide additional skills to enable students to strengthen their vocational skills and enable them to continue their studies at a higher level of education.

The Directorate of Technical and Vocational Education (DTVE), a sub-system of the Directorate General of Primary and Secondary Education within the Ministry of Education and Culture, is responsible for TVE at the secondary level.

In carrying out its task, the DTVE has the following major functions: (1) setting up the policies for technical and vocational education which consist of home economics, social work, business studies, technical and agricultural studies, and art and craft; (2) conducting development of TVE; and (3) carrying out the administrative work of the Directorate.

TVE within the secondary education sector in Indonesia has two main components: (1) Junior Technical and Vocational Schools (three years); and (2) Senior Technical and Vocational Schools (three or four years). Entry pre-requisites for the Senior Technical and Vocational Schools are successful completion at the Junior level and an age limit of not more than 19 years of age.

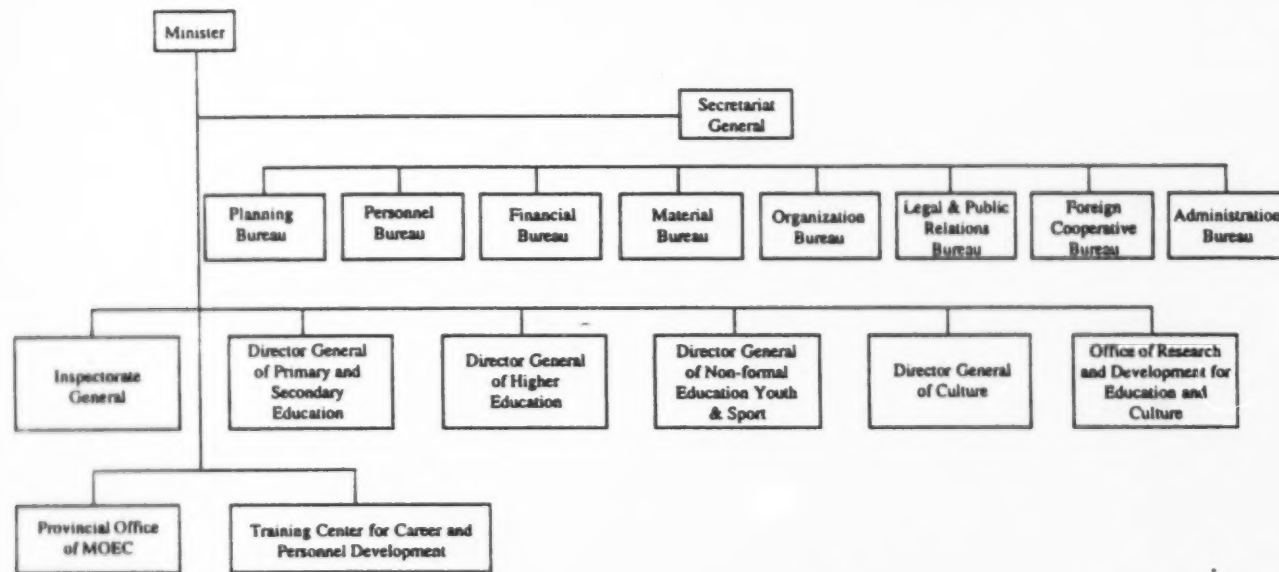
Based on Curriculum of 1984 which has been in place since school year 1985-1986, the TVE programmes are grouped into six areas as follows:

1. Agriculture and Forestry
2. Engineering
3. Business and Commerce
4. Home Technology
5. Health and Social Works
6. Art and Crafts

Each group consists of one or more clusters and one cluster comprises one or more study programmes. At present, there are thirty-nine clusters and 100 study programmes for the senior secondary technical and vocational level and twelve study programmes for the junior level that can be chosen by each school based on the conditions of teachers and faculties in the respective schools and the needs of the region.

The following diagrams and charts describe further the Indonesian TVE system.

ORGANIZATION OF THE MINISTRY OF EDUCATION AND CULTURE

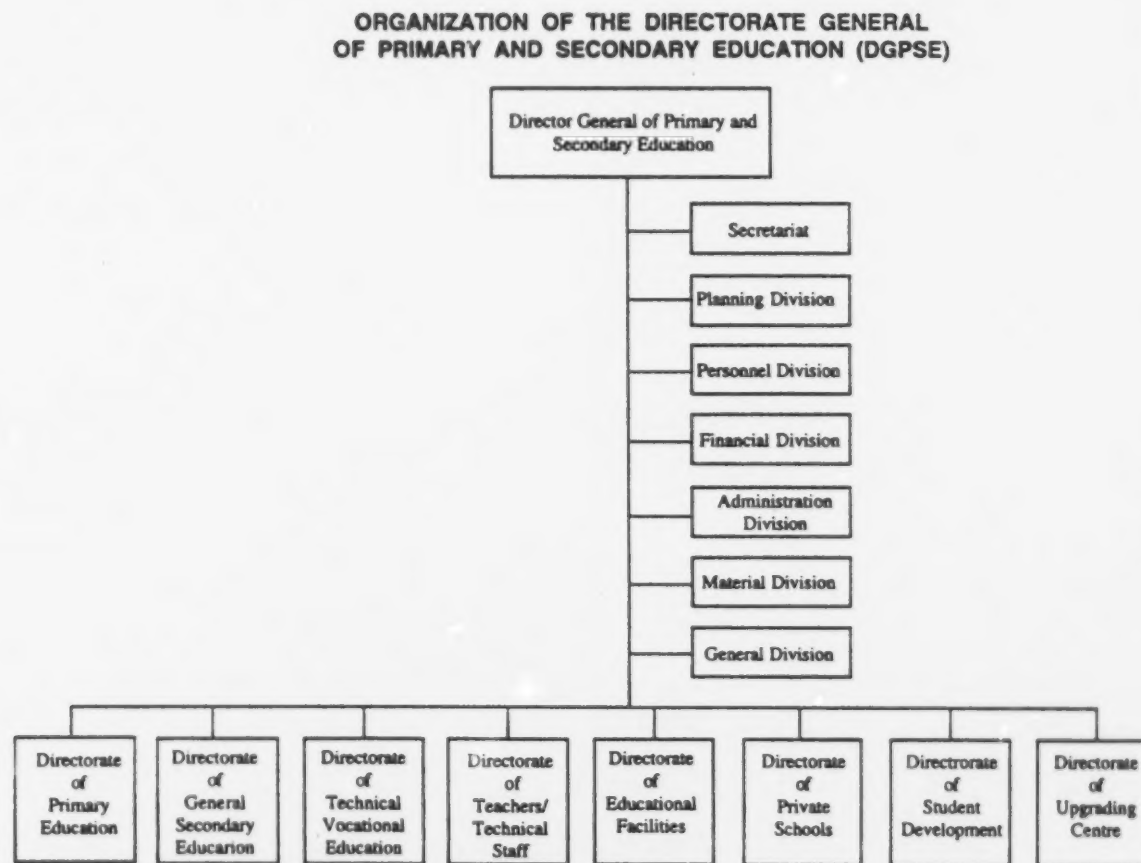


Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

Organization of the Ministry of Education and Culture

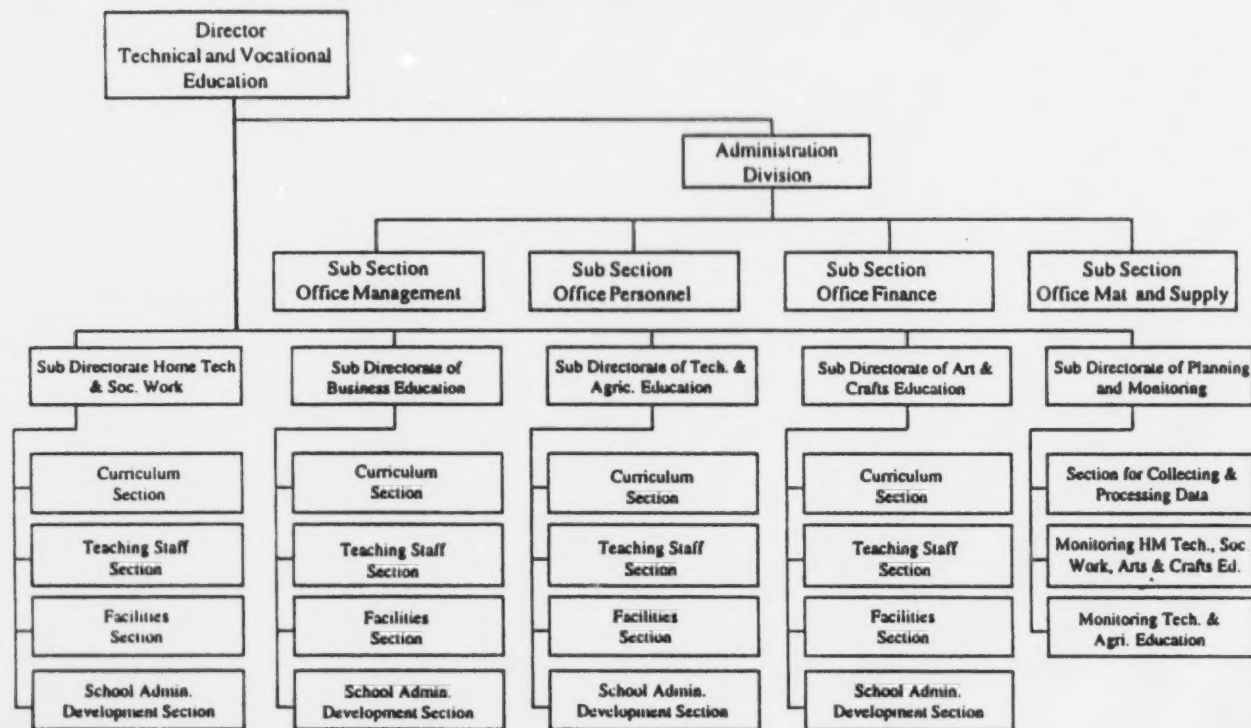
An overview

Organization of the Directorate General of Primary
and Secondary Education (DGPSE)



Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

**ORGANIZATIONAL STRUCTURE OF
THE DIRECTORATE OF TECHNICAL AND VOCATIONAL EDUCATION (DTVE), MECS**

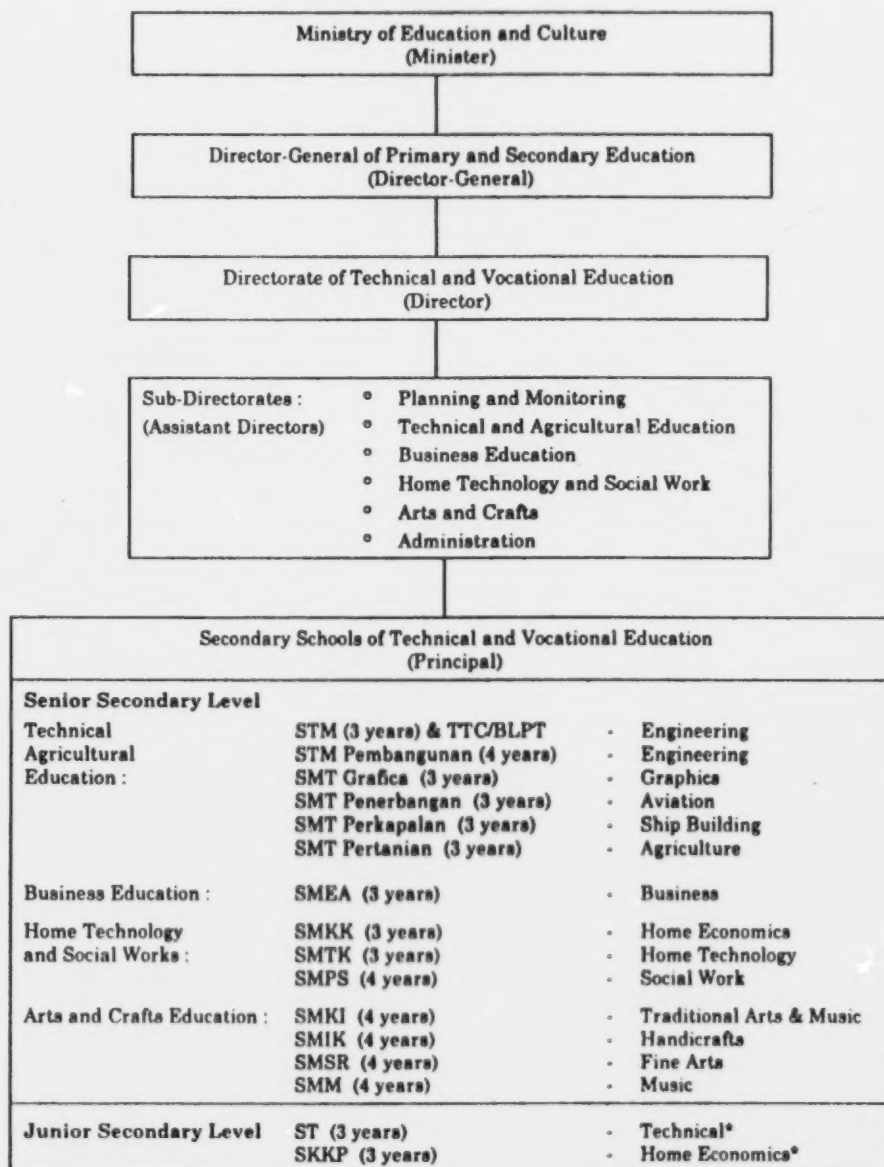


Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

Organizational Structure of the Directorate of Technical and Vocational Education
(DTVE), MECS

An overview

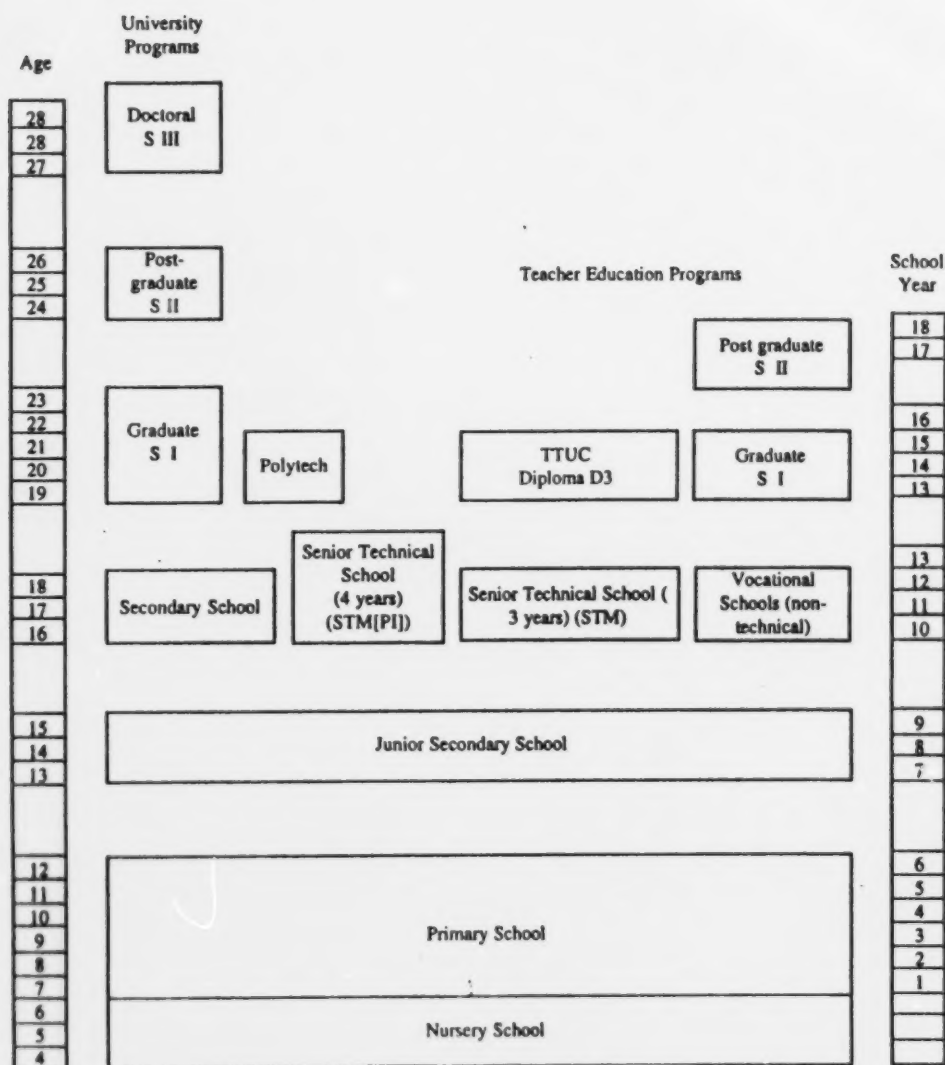
Summary of Technical and Vocational Education
within the Indonesian Education Hierarchy



* Being phased out.

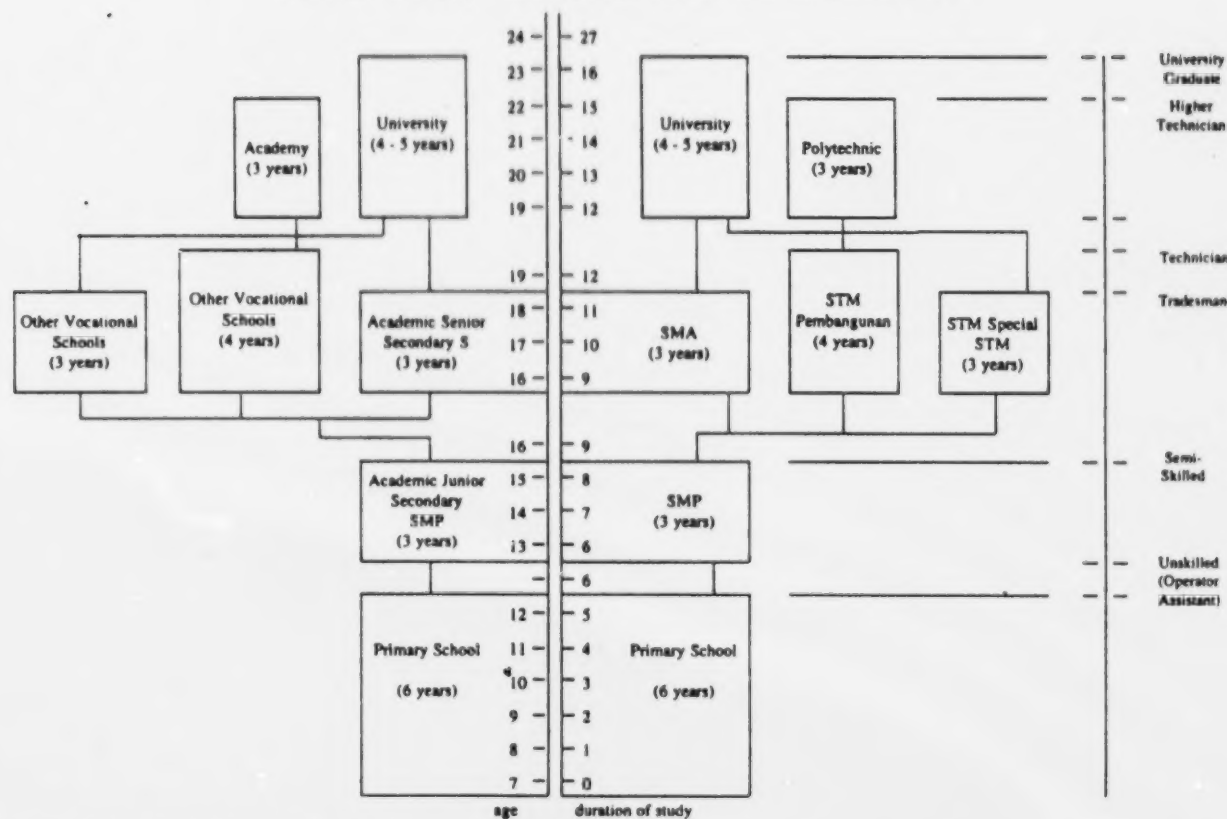
Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

STRUCTURE OF EDUCATION SYSTEM

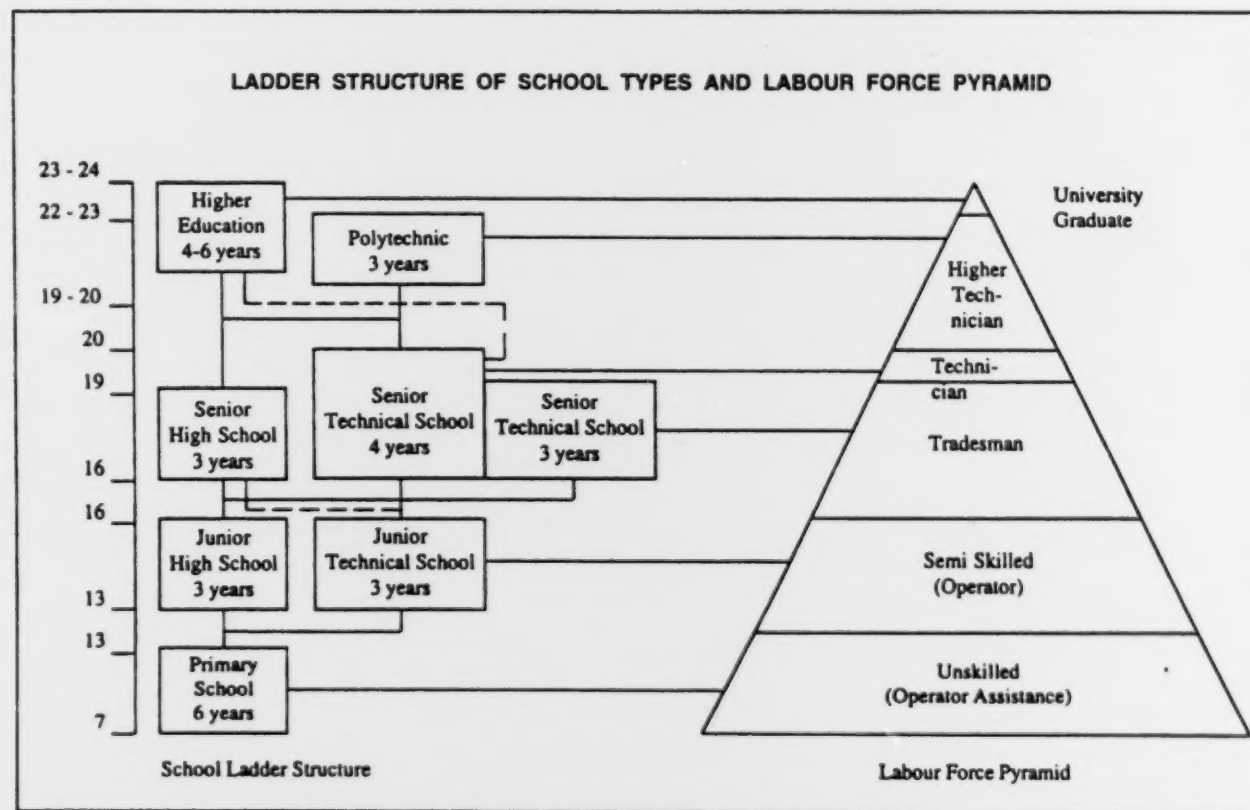


Reference: Directorate of Technical and Vocational Education, Ministry of Education & Culture of Indonesia

SCHOOL LADDER, TYPES AND LEVEL OF SKILLS WITHIN DTVE



Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia



Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

Number of Public Secondary Technical and Vocational Schools
and Student Population, 1989 - 1990

No.	School Types	Number of School	Students Population
1.	ST : Junior Technical School	193	75,757
2.	SKKP : Junior Home Economic School	74	14,810
3.	STM : Senior Technical School	149	129,367
4.	STM Pembangunan : Senior Technical High School (4 years)	8	7,771
5.	SMEA : Senior Business and Commerce School	324	233,257
6.	SMKK : Senior Home Economic School	84	36,292
7.	SMTK : Senior Home Technology School	6	4,459
8.	SMPS : Senior Social Work School	14	6,326
9.	SMKI : Senior Traditional Art and Performance School	8	4,383
10.	SMM : Senior Music School	3	571
11.	SMSR : Senior Fine & Art School	6	2,478
12.	SMT Perkapalan : Senior Ship Building School	1	630
13.	SMT Grafika : Senior Printing School	2	938
14.	STM Kimia : Senior Chemical School	3	992
15.	STM Pertanian : Senior Agricultural School	31	14,288
	TOTAL	916	532,319

Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia.

List of Clusters and Study Programmes within Curriculum 1984
for Schools of Technical and Vocational Education

No.	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
1.	Agriculture and Forestry	1. Agronomy	1.1 Food-plant and Horticulture Production 1.2 Plantation Production 1.3 Plantation Production	3 years 3 years 4 years	STM Pertanian and SMT Pertanian SPbMA
		2. Animal Husbandry	2.1 Livestock Production	3 years	SMT Pertanian
		3. Fishery	3.1 Fish Culture Production 3.2 Fish Catching Techniques	3 years 3 years	SMT Pertanian SMT Pertanian
		4. Agricultural Mechanization	4.1 Agricultural Mechanic	3 years	SMT Pertanian
		5. Agricultural Product Processing	5.1 Agric. Product Processing 5.2 Agric. Product Processing	3 years 4 years	STM Pertanian and STM Pertanian
		6. Mixed Farming	6.1 Mixed Farming	3 years	SMT Pertanian, SFM
2.	Engineering	1. Building	1.1 Civil Drawing 1.2 Surveying and Mapping 1.3 Building Construction 1.4 Civil Construction 1.5 Building Construction 1.6 Civil Construction	3 years 3 years 3 years 3 years 4 years 4 years	STM STM STM STM STM Pembangunan STM Pembangunan
		2. Electronics	2.1 Industrial Electronics 2.2 Communication Electronics 2.3 Industrial Electronics 2.4 Communication Electronics 2.5 Transmission Technology 2.6 Telecommunications	3 years 3 years 4 years 4 years 4 years 4 years	STM STM STM Pembangunan STM Pembangunan STM Pembangunan STM Pembangunan
		3. Electrical	3.1 Domestic Electrical Installation 3.2 Industrial Electrical Installation 3.3 Industrial Electrical Installation 3.4 Electrical Power	3 years 3 years 4 years 4 years	STM STM STM Pembangunan STM Pembangunan
		4. Metal Works	4.1 Metal Fabrication 4.2 Machining 4.3 Advanced Machining	3 years 3 years 4 years	STM STM STM Pembangunan
		5. Mechanical	5.1 General Mechanics	3 years	STM
		6. Automotive	6.1 Auto Mechanics 6.2 Automotive	3 years 4 years	STM STM Pembangunan
		7. Industrial	7.1 Process Control 7.2 Metal and Glass Instrumentation	4 years 4 years	STM Pembangunan STM Pembangunan
		8. Refrigeration and Air-conditioning	8.1 Refrigeration and Air conditioning	4 years	STM Pembangunan
		9. Mining Geology	9.1 Mining Geology	4 years	STM Pembangunan
		10. Chemistry	10.1 Industrial Chemistry 10.2 Industrial Chemistry 10.3 Analytical Chemistry	3 years 4 years 4 years	STM STM Pembangunan STM Pembangunan

No.	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
3		11. Textile Manufacturing	11.1 Spinning 11.2 Weaving 11.3 Knitting 11.4 Textile Finishing 11.5 Spinning 11.6 Weaving 11.7 Knitting 11.8 Textile Finishing	3 years 3 years 3 years 3 years 4 years 4 years 4 years 4 years	STM STM STM STM STM Pembangunan STM Pembangunan STM Pembangunan STM Pembangunan
		12. Graphics	12.1 Graphics 12.2 Graphic Production	3 years 3 years	SMT GrafiKa SMT GrafiKa
		13. Shipbuilding	13.1 Maintenance and Repair of Ships Structure 13.2 Maintenance and Repair of Ships Engine 13.3 Welding and Ship Building 13.4 Ship Design 13.5 Ship Repair and Maintenance 13.6 Ship Engine Repair and Maintenance	3 years 3 years 3 years 3 years 3 years 3 years	STM Perkapalan STM Perkapalan STM Perkapalan STM Perkapalan STM Perkapalan STM Perkapalan
		14. Airframe	14.1 Aircraft Frame Construction 14.2 Aircraft Body Frame Construction	3 years 3 years	STM Penerbangan STM Penerbangan
		15. Aircraft Production	15.1 Machining - Milling 15.3 Machining - Lathe Work	3 years	STM Penerbangan STM Penerbangan
		16. Aircraft Accessories	16.1 Aircraft Electrical Installation 16.2 Aircraft Electrical Installation	3 years 3 years	STM Penerbangan STM Penerbangan
		17. Aircraft Maintenance	17.1 Aircraft Mechanics and Air Frame 17.2 Aircraft Electrical and Instrumentation 17.3 Aircraft Electronics	3 years 3 years 3 years	STM Penerbangan STM Penerbangan STM Penerbangan
		18. Interior Design and Fittings	18.1 Interior Fitting	3 years	STM
		19. Shipping Transportation	19.1 Navigation 19.2 Engineering	4 years 4 years	SPM SPM
	Business and Office Administration	1. Finance	1.1 Accounting	3 years	SMEA
		2. Office Administration	2.1 Office Practice 2.2 Secretarial	3 years 3 years	SMEA SMEA
		3. Business	3.1 Marketing Management	3 years	SMEA
		4. Co-operatives	4.1 Co-operative Marketing Management 4.2 Co-operative Investment and Loan Management	3 years 3 years	SMEA SMEA
		5. Tourism	5.1 Travel	3 years	SMEA
4	Health and Social Work	1. Social Work	1.1 Social Medical Work 1.2 Social Corrective Work 1.3 Social Rehabilitation Work 1.4 Social Public Development Work 1.5 Social Rural Public Development Work	4 years 4 years 4 years 4 years 4 years	SMPS SMPS SMPS SMPS SMPS

No	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
5.	Home Economics	1. Beautician	1.1 Beautician	3 years	SMTK and SMKK
		2. Food Technology	2.1 Nutrition	3 years	SMTK and SMKK
			2.2 Food Services (Restaurant and Catering)	3 years	SMTK and SMKK
			2.3 Bakery (Breads and Cake)	3 years	SMTK and SMKK
		3. Tourism	3.1 Hotel Management	3 years	SMTK and SMKK
		4. Home Economics	4.1 Food	3 years	SMKK
			4.2 Clothing	3 years	SMKK
			4.3 Housekeeping	3 years	SMKK
		6.	Culture	1. Fine Arts	1.1 Decoration
1.2 Graphic Communication	4 years				SMSR
1.3 Craft Design	4 years				SMSR
1.4 Painting	4 years				SMSR
1.5 Sculpture	4 years				SMSR
2. Handicrafts	2.1 Painting/Basketry			4 years	SMIK
	2.2 Ceramics			4 years	SMIK
	2.3 Metal Craft			4 years	SMIK
	2.4 Wood-carving			4 years	SMIK
	2.5 Batik			4 years	SMIK
	2.6 Leather work			4 years	SMIK
3. Performing Arts	3.1 Traditional Music			4 years	SMKI
	3.2 Traditional Dance			4 years	SMKI
	3.3 Traditional Wayang Puppet Theatre			4 years	SMKI
	3.4 Arts Theatre			4 years	SMKI
4. Music	4.1 Performance			4 years	SMM